

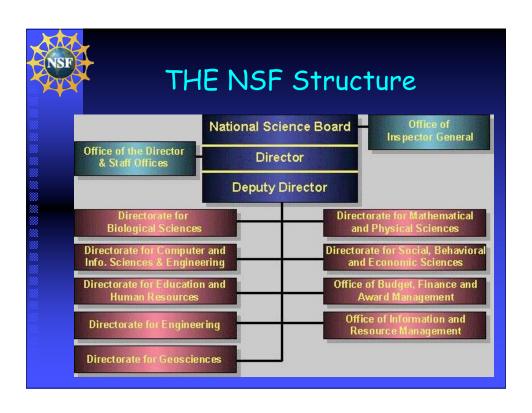


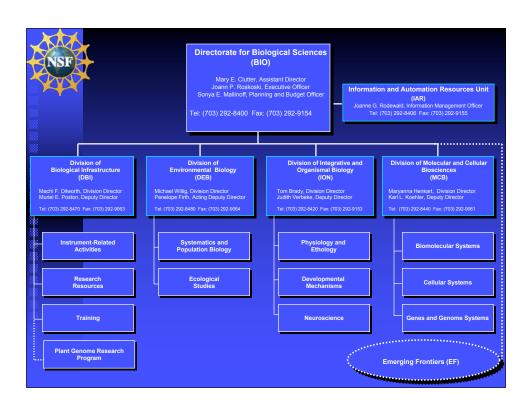
NSF Mission

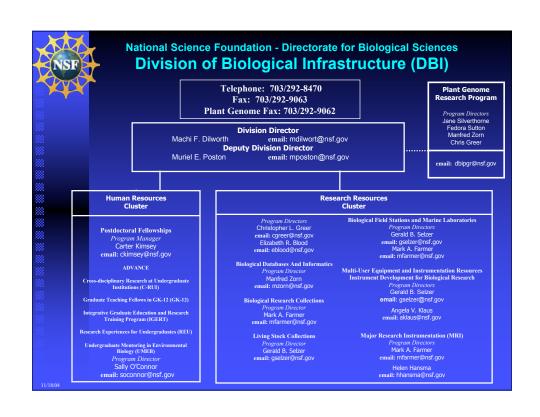
"To promote the progress of science; to advance the national health, prosperity, and welfare; to secure the national defense"

--NSF Act of 1950

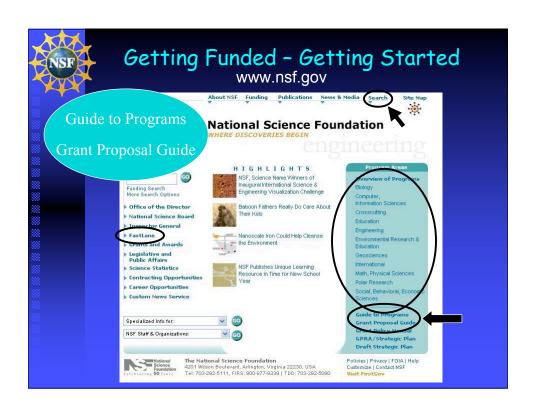




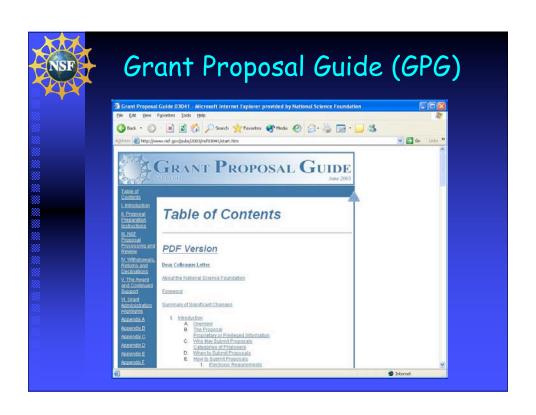


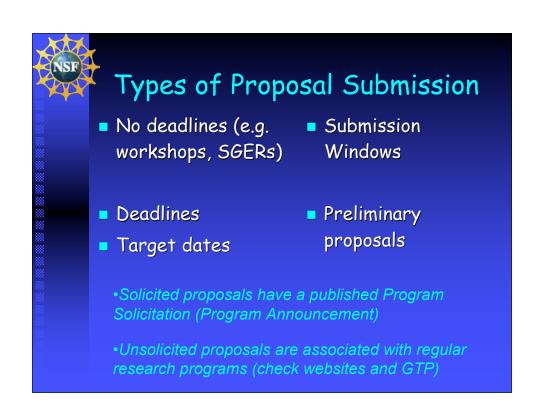








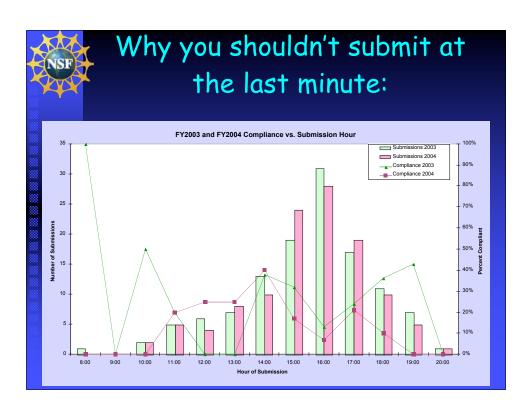






Read the Program Solicitation

- It outlines the scientific scope of the competition
- It summarizes what is required in the proposal for it to be compliant
- It tells you who to contact if you have questions
- It tells you when the deadline is





What to Look for in a Program Announcement

Read the Program Announcement Carefully

Pay special attention to:

- Goal of program
- Eligibility
- Special requirements

Then...





Good Reasons to Submit a Compliant Proposal

The three fatal flaws that will result in return of your proposal without review:

- No broader impacts in the project summary
- Project description in excess of 15 pages
- Non-compliant font or format



In Summary...

- Read the Program Solicitation before you start writing a proposal
- Don't leave proposal submission until the last minute because disasters can and do happen
- Follow the Program Solicitation directions carefully because...

if you can't read this, neither can we and your proposal will be returned without review



NSF Program Directors

Permanent Program Directors

and

Rotators

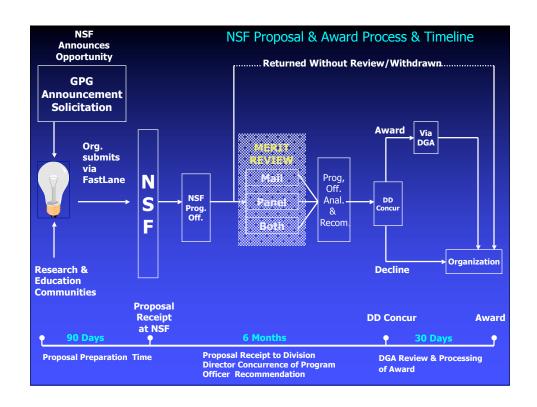


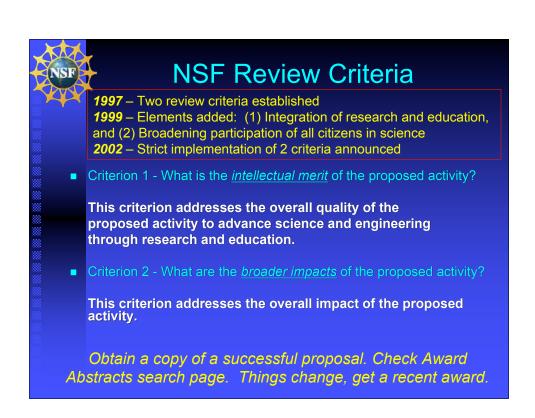
A Good Proposal

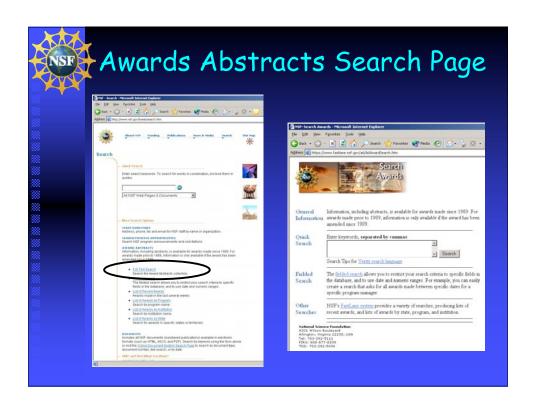
A good proposal is a good idea, well expressed, with a clear indication of methods for pursuing the idea, evaluating the findings, and making them known to all who need to know.

A Competitive Proposal is...

- •All of the above
- Appropriate for the Program
- Responsive to the Program Announcement











NSF Panel Review (most research divisions)

- The panel is an advisory committee composed
- of ~10-20 people depending on proposal pressure
- Each proposal must receive at least 3 reviews
- In panel, each reviewer describes his/her views of the proposal to the rest of the panel
- The panel as a whole then discusses the proposal
- The proposal is then placed in a funding recommendation category (e.g. Fund, Fund if Possible, Do not fund)



Proposal Funding Recommendations

The Program Director makes funding recommendations to the Division Director based on:

- The advice of the panel
- Budgetary constraints
- Other programmatic considerations



NSF Panel and Adhoc Reviewers

- NSF Awardees
- Program Officer's knowledge of research area
- References listed in proposal
- Recent technical programs from professional societies
- Recent authors in S&E journals
- Medline, Science Citation Index
- Reviewer recommendations
- PI suggestions



Getting on a Panel

- Contact your program director
- E-mail your CV to your program director
- Include your contact information
- Indicate your areas of expertise
- Follow up with a phone call
- Be polite, pleasant, and persistent (don't give up)



NSF Crosscutting Programs

http://www.nsf.gov/home/crssprgm

- Research Experiences for Undergraduates (REU)
- CAREER Awards
- RUI/ROA
- GK-12
- Math and Science Partnerships
- IGERT
- Many others



Funding Strategies Visit NSF

- Types of people that visit NSF
 - Researchers/Science Educators
 - Office of sponsored research personnel
 - Deans/Administrators
- If you anticipate being in the DC area, call your Program Director(s) and make an appointment(s)
- Investigate setting up a special group visit



Getting Support

- NSF Publications
 - Program
 Announcements
 - Grant Proposal Guide
 - Web Pages
 - Funded Project Abstracts
 - Reports, Special Publications

- Successful Colleagues on campus or at similar institution
- Mentors on Campus
- Previous Panelists
- Serve As Reviewer
- Sponsored Research Office
- Successful Proposals
- Program Officers
 - Incumbent
 - Former Rotators



A Declination How to Gain from the Experience

Success rate for most programs is ~30%

Read the written Reviews and the Panel Summary

- •What guidance was provided for improvements?
- •Did reviewers misunderstand your intentions?
- •Were reviewers from outside your field confused?
- •Was proposal submitted to the wrong NSF program?
- •Remember reviews were tempered by panel discussion
- •Your Program Director or faculty mentors can help you interpret the reviews

Call the Program Director for guidance and interpretation



Participate in the Peer Review System It works for you... but...

- It requires your work
- For the system to break even, you need to submit at least the same number of reviews you receive (or the equivalent) each year



If you are asked to be an ad hoc reviewer, panelist, or site visitor...

- Please participate if at all possible
- If you cannot participate, please let us know as soon as possible
- Recommendations for additional reviewers and panelists are always appreciated
- Consider both intellectual merit and broader impacts in your reviews
- Make constructive comments to assist the PI in strengthening the proposed research



Community Mentoring

- Provide advice to new researchers as they develop proposals for the Program
- Consider ways in which you can involve new investigators, as well as researchers from PUIs, HBCUs, and Tribal Colleges in your project
 - Supplements
 - New projects



The Golden Rules

- Read your award letter before you start work
- Communicate regularly and effectively with your project members
- Use your Advisory Committee wisely
- Note deadlines for reports and supplement requests, or responses, and meet them
- Know when and when not to contact Program staff



Your Award Letter



- Is an electronic message sent to the institutional representative
- Lists the project title and co-PIs
- Lists the award instrument
- Lists the total award amount, and start and end dates
- Lists cognizant Program and Grants officials
- If you have a cooperative agreement, it also includes deliverables and additional reporting requirements



Award Instruments



- Standard award all funding is given at the start of the project but Annual Progress Reports are still required
- Continuing award funds are released annually, contingent upon satisfactory progress documented in the Annual Progress Report
- Cooperative agreement funds are issued contingent upon timely completion of deliverables, as documented in the Annual Progress Report and any additional required reports or reviews



Requesting Supplemental Funding

- Contact the PI first, if that is not you
- Call us and describe what you need
- We may ask you to send an outline by email along with a proposed budget
- After securing our go-ahead, submit the proposal via FastLane
- Requests over \$100k will normally be sent out for review and may take longer to process
- Apply early!



Summary

- Start early give yourself enough time
- Read the PA and follow rules in GPG
- Get feedback on your proposal from your colleagues
- Proposals should be cogent, appropriate, and justified
- Study reviews carefully (award or declination)
- Anticipate criticisms (better *invite criticism*)
- Anticipate some frustration (and remember 3Ps)
- If declined Call your Program Director after reading your reviews (take some time to think about them)
- If awarded follow up on reporting and find out about supplemental funding (stay in touch with PD)